

## Patent Abstracts of Japan

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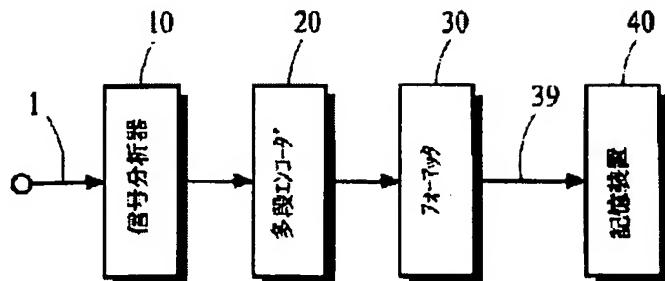
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TITLE : MULTI-STAGE ENCODING OF SIGNAL  
 CONSTITUENT SORTED BY  
 CONSTITUENT VALUE



**Fig. 1**

ABSTRACT : PROBLEM TO BE SOLVED: To realize high level compression at low calculation cost.

SOLUTION: High compression can be realized in an audio and encoding system by using a multi-stage encoding process need no highly accurate and preliminary limited probability distribution function of information to be compressed, has the low calculation cost and is free from loss. The process sorts signal constituents to be compressed into one of several types on the basis of constituent values. A signal constituent to be arranged in a type of higher level is represented by a mark in a type of lower level. In each stage in the encoding process, groups of the signal constituents are formed and multi-dimensional encoding process are used for the groups. The dimensions of the encoding process are selected so as to be the same as the size of the groups in which the dimensions are used, and the calculation requirements of the encoding process are balanced against compression performance.

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